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SCIENCE.

GOLD FROM PERUVIAN RIVERS .-The whole of the Chucampa (Peru), says a correspondent in Iron, for a number of leagues above and below the Temple of the Sun is auriferous, and the inhabitants of the province of Huamelies, through which it passes, obtain by washing the sand, and by means of sheepskins, 200,000 or 300,000 dollars' worth of gold annually. The wool on the skins is cut out until it is about half an inch in length. The skins are then anchored down, with the wool side up, by means of loose stones placed on them, in and below the various rapids, in which position they are suffered to remain from six to twenwool side downward into a batea of brown water. (tub) of water, and thoroughly washed; the gold falling from the wool of the skin is finally collected from the bottom of the batea. Sheep studying the flora of the country, be kept up till the slugs are got rid were unknown to the Incas, and as speak with enthusiasm of her dis- of. they obtained an immense amount of gold from this Pactolean stream, her fresh flowers. In one place she it is presumed that they used the skins of the lama (Camelus lacina | aloe trees in the world, or rather of Linnæus) and those of the vicuna | three standing together, forty feet (Camelus peruanus or vicuyna of Linnæus). The above will not only be of interest to the general reader, but will also furnish a wrinkle to gold miners similarly situated.

EARTH.-In a "Treatise on Natural Philosophy," by Professor Sir W. Thomson and P. G. Tait, Sir W. Thomson, speaking of an opinion advanced by Sir Charles Lyell, respecting the possible maintenance of the earth's heat without change throughout countless ages, used words which, says Knowledge, may be applied without change of a word to the stupendous theory advanced by Sir C. Siemens not so very long since—such an idea of a practically endless cycle "violates the principles of natural philosophy in exactly the same matter, and to the same degree, as to believe that a clock constructed with a self-winding movement may fulfil the expectations of its ingenious inventor by going for ever." The earth is necessarily cooling from century to century; her volcanic energies are certainly diminishing, as certainly, to use an illustration of Sir W. Thomson's, as the quantity of gunpowder in a "monitor" is diminishing when hour after hour she is seen to discharge shot and shell, whether at a nearly equable rate or not, without rcceiving fresh supplies of ammunition.

TOBACCO JUICE VAPOR FOR PLANTS. -The vapor of tobacco juice has been tested in France as an insecticide in green houses with great success. Instead of burning or smoking the tobacco, which is a very offensive process to some persons, the tobacco is made into an extract by soaking or boiling, and the juice a fire, or the flame of an ordinary house or conservatory. Delicate plants which are very sensitive to smoke are not injured by this vapor, and it leaves no offensive atmosphere, while it effectually disposes of thrips, lice, scale, insects, and slugs. One quart of tobacco juice vaporized in a house containing 350 cubic feet is an ample amount.

In boring an artesian well in the Santa Clara Valley, California, the stump of a redwood tree was met at a distance of 281 feet from the ground surface. The point where the tree was struck is 84 feet above tide water, from which it is distant eight miles, and the depth at which the wood was reached is much greater than that of the water in the bay.

foreign birth; Germany, with 45,million. In France there has been

the engine will sometimes give the hoeing strawberries and newly set

An astronomer explains the cyclonic tendency of the present season by the finding of an enormous group af spots, more than 50,000 plants have secured, by chopping miles in diameter, on the surface of close about them .- Fruit Garden. the sun. So long as these remain voilent electric and wind storms are to be expected. For the good of posing of slugs in the garden is dethe world, therefore, the sun as well as individuals should preserve a spotless reputation.

into the belief that granitic rocks, instead of being of igneous and bran on each piece of slate or tin, eruptive origin, as commonly snpposed, are really of aqueous formation. In proof of this, it is said that the granites of the rapids of the Dneiper, when closely examined, salt and water, and throw any slngs ty-four hours. They are then care- show stratification, and under the found feeding into the brine, where fully raised out of the water, turned | microscope are seen to contain drops

coveries, every fresh place showing had a sight of one of the largest high, with hundreds of heads on the ends of their branches, each of which when in bloom, has a bunch of "red | the care of bee-keeping much easier hot-poker flowers" coming out of it, forming a mass of scarlet which it of honey make the article much was said could be seen thirty miles THE GRADUAL COOLING OF THE Off.

> absorption of gases by the aerial organs of plants is related by M. Cornu. Some of the shelves in a vinery had been coated by the gardener with some bad-smelling coal-tar. The result was that the grapes were spoiled. The roots and stems of the vines were outside the house, so that the odor of the tar could not come through them. A singular circumstance was that the flavor of the tar was stronger in the centre of each grape than on or at the skin.

FARM AND GARDEN.

AMMONIACAL LIQUOR AS A FERTIL-IZER.—The Journal des Usines a Gaz, on the subject of the use of ammonia. the girls spoke up and said: "She will cal liquor as a manure, states that it get plenty of preserves there." Aswas so highly appreciated by the Bel- | tonished to hear her make such a strange gian agriculturists that the entire statement, the teacher questioned her production of the gas works at Malines | to ascertain what could have put the was bought up in the crude state at the rate of 1 fr. 25 c. per hectoliter to the following question and answer in (say \$1 per 100 gallons) on the spot. Upon newly cleared ground the liquor was used just as it left the works; but to love God?" for irrigation purposes it was diluted with three or four times its bulk of water. The effect produced on the soil by the use of the liquor is stated to be exactly the same as when stable dung (which is usually considered to be the best kind of manure) is employed. The writer found that in rainy seasons the liquor might be used in an undiluted condition; and when spread over the ground in the proportionn of about 1,500 gallons to the acre, a perfect dressing was obtained. In dry weather, is then placed over a chafing dish, however, the liquor had to be diluted yu are az big a phool az the other with an equal bulk ot water, and a lamp, and deposited in the green- double quantity of the mixture used to produce similar results. But even in this condition it was found to possess the same value for agricultural purposes as stable manure.

SHALLOW CULTIVATION .- Fruitgrowers must be reminded that their hoes, cultivators and ploughs may do more damage to plants than the time wishing she was somehow good, if not used with discretion. The small fruits-berries, currants, grapes, also dwarf pears, quinces, etc.-root near the surface. Here are found the best roots, those that provide the nourishment. Nature designed these to be mulched by no bread. the dead leaves, and in our fields mulching would be the best treatment, if it were possible. As it is, the best we can do is to give frequent but shallow cultivation. have seen intelligent men ploughing England, with 27,000,000 inhabit- deep furrows alongside of their ants, has only 140,000 residents of raspberries, currants and grapes, and well satisfied that they were 000,000, only 270,000; while France, doing thorough work that would with 37,400,000, has more than a yield an abundant harvest. Let. such men dig up one plant before an increase of 200,000 in the last thus ploughing one after, and see what butchery they have committed. improven' that buryin'-ground nigh on There are no tap-roots stretching to lorty year ago and my family hain't It is said that lying with the head | far down into the subsoil, but simply | had no benefit from it yet!" toward the engine when travelling a few laterals branching out, say on the railroad will sometimes re- from two to four inches below the move the headache. We don't know | surface, and more than half of them how true that is, but we do know have been sacrificed by the plowthat sitting with the back toward share. When we see green hands

will do if not watched. They will destroy half these roots and loosen the hold for life that the struggling

An easy and effectual way of disscribed by the late James Vick .--Take pieces of slate, or flat stone or flat pieces of tin, and lay them about in the garden among the plants, dis-Russian geologists are settling tributing them very liberally. Just at sundown place a teaspoonful of and the slugs will soon begin to gather and feed on it. In about two hours, when it is dark, go out again with a lantern and pail containing they will be instantly killed. It is well to go around again in the morning, when many slugs will be Letters from Miss North, the found under the slate, and can be English artist, who is now in Africa | destroyed in the brine. This must

The improved hives which have taken the place of the old cumbrous ones, that were so awkward in handling and failed to yield an equal supply of honey, when compared with these remodelled ones, make and pleasanter. The small sections more saleable than formerly, though they require careful handling. Altogether, with due care and a proper A curious fact illustrating the management of this beautiful and interesting branch of domestic industry, the apiary should be found upon a dozen farms, where it is now found only upon one.

> You cannot make a better use of your suds than to pour it around young trees, grape-vines and rosebushes. It is a first-class fertilizer

VARIETIES.

A PRESERVED ERROR. - A teacher of a Sunday school in the interior of New-York was impressing upon the scholars a lesson in connection with the death of one of their number. She told them that little Amy was now a saint in heaven. Whereupon one of idea in her mind. It was finally traced the catechism:

" Question. Why ought the saints

"Answer. Because he makes, pre-

serves, and keeps them." JOSH BILLING'S ADVICE.-Never run into debt, not if you can find any-

thing else to run into. Be honest if yu can, if yu kant be honest, prey for help.

Marry young, and if yu make a hit keep cool and don't brag about it. Laff every time you feel tickled, and

laff once in a while ennyhow. Don't jaw back-it only proves that

Never borrow what yu are able to buy, and allwuss have some things that

yu won't lend. Never git in a hurry; yu can walk a good deal further in a day than yu can

Don't swear; it may convince yu, but it iz sure not to convince others. Luv and respect your wife anyhow, it is a good deal cheaper than to be all

Don't have enny rules for long life that you won't break; be prepared today to die to-morrow is the best creed

for long life that I kno of. If you kan't get haff a loaf take a whole one, a whole loaf is better than

Note.—Bi trieing to follow the abuv guide to health and happiness, the Billings family has bekum what it iz.

" I say, Jenkins, can you tell a young, tender chicken from an old, tough one?" "Of course, I can." "Well, how?" "By the teeth." "By the teeth! Chickens have no teeth." "No, but I

An old citizen in a country village being asked for a subscription towards repairing the fence of the graveyard declined, saying; " I subscribed toward

When an old backwoodsman was about to take his first ride on a Mississippi steamer, he was asked whether he would take deck or cabin passage. "Well," said he, in a resigned sort of a way, "I've lived all my life in a cabin, and I guess cabin passage will be good raspberries, we know what they enough for a rough chap like me."

Rev. Father Wilds' EXPERIENCE.

The Rev. Z. P. Wilds, well-known city missionary in New York, and brother of the late eminent Judge Wilds, of the Massachusetts Supreme Court, writes

"78 E. 54th St., New York, May 16, 1882.

MESSES. J. C. AYER & Co., Gentlemen:

Last winter I was troubled with a most uncomfortable itching humor affecting more especially my limbs, which itched so intolerably at night, and burned so intensely, that I could scarcely bear any clothing over them. I was also a sufferer from a severe catarrh and catarrhal cough; my appetite was poor, and my system a good appetite was poor, and my system a good deal run down. Knowing the value of AYER'S SARSAPARILLA, by observation of ayer's Sarsaparilla, by observation of many other cases, and from personal use in former years, I began taking it for the above-named disorders. My appetite improved almost from the first dose. After a short time the fever and itching were allayed, and all signs of irritation of the skin disappeared. My catarrh and cough were also cured by the same means, and my general health greatly improved, until it is now excellent. I feel a hundred per cent stronger, and I attribute these results cent stronger, and I attribute these results to the use of the SARSAPARILLA, which I recommend with all confidence as the best blood medicine ever devised. I took it in small doses three times a day, and used, in all, less than two bottles. I place these facts at your service, hoping their publication may do good.

Yours respectfully, Z. P. WILDS." The above instance is but one of the many constantly coming to our notice, which prove the perfect adaptability of AYER'S SARSA-PARILLA to the cure of all diseases arising from impure or impoverished blood, and a weakened vitality.

Ayer's Sarsaparilla cleanses, enriches, and strengthens the blood. stimulates the action of the stomach and

bowels, and thereby enables the system to resist and overcome the attacks of all Scrofulous Diseases, Eruptions of the Skin, Rheumatism, Catarrh, General Debility, and all disorders resulting from poor or corrupted blood and a low state of the system. PREPARED BY

Dr. J. C. Ayer & Co., Lowell, Mass. Sold by all Druggists; price \$1, six bottles for \$5.



Best Purgative Medicine eure Constipation, Indigestion, Headache, and all Bilious Disorders.

Sold everywhere. Always reliable.

Feb. 7.

HONOR TO WHOM HONOR IS DUE

HOLMAN PAD COMPANY, Halifax, N. S. WALLACE BRIDGE, Cumberland Co., 17th February, 1882.

GENTLEMEN,—I have much pleasure in informing you of the benefit I have received from wearing one of your Pads. was induced by a friend, last December. to give one a trial. Since then my health has improved so much that I have gained twenty-two pounds in weight. Under these circumstances, I feel that I am obligated, not only to you but to every person suffering as I did before I commenced to wear your Pad, to endeavor, as far as I possibly can, to help to place such a remedy within the reach of every suf-Yours truly,

LAWRENCE McKIN. Postmaster.

Advice free. Pads of all descriptions sent free by mail on receipt of price.

HERRING COVE, April 8, 1882. HOLMAN PAD COMPANY, 119 Hollis St.,

DEAR SIRS, - My wife has been ill for about THREE years, and attended by the best physicians without receiving the least benefit therefrom; but since wearing your Pads, she is QUITE WELL. With deepest gratitude and with the view of benefiting others.

I remain. Yours obediently. JOHN KEATING. April 19.

HALIFAX STEAM DYE WORKS, 566 Upper Water Street, (Opposite H. M. Naval Yard)

Established 1871. JOHN HUBELEY, Proprietor.

COATS, Pants, Vests, Shawls, Sacques Dresses, Clouds, Curtains, Table EDITORIAL NOTICE estly requested for the Spirit's power to accompany the reading of the books and the Cloths, Cashmere Shawls, &c., Cleansed and Dyed to look like new.

Silk Ribbons, Scarves, Crape Shawls, Satan Neckties, &c., Dyed all Colours. FEATHERS DYED AND CURLED. Gents Garments cleansed and pressed, Goods damaged by fire or water, faded or soiled, Coats Dyed to look like new.

Mourning Dyed at the shortest notice. Gents Garments and Ladies Dresses, all wool, Dyed and Pressed whole, without

AGENT-MISS CAROLINE LAWSON, 123 Barrington Street, opposite St. Paul's JOHN HUBELEY,

566 Upper Water Street, Cheapest Place in the city for Dyeing.

TO DRS. BENNET AND LEWIS, 119 HOLLIS ST., HALIFAX.

DEAR SIRS :- "I desire to express my feelings of profound gratitude to you who have helped me so much by the use and application of your wonderful medicine known as your Absorptive Pads and Plasters. I was sick about two years, and spent a large sum of money with Physicians but received very little benefit until I tried your Absorptive treatment. When I tried your Absorptive treatment. When I commenced using it this summer I could scarcely walk across the floor, and now ! can walk a mile at a time, and attend to household duties much better than I could before and feel only too glad to recommend this truly great treatment to any person or persons who may be afflicted as I was. You are at liberty to make any disposition of this note you may deem proper.

MRS. R. HIBBARD. Hebron, Yarmouth. This treatment can be applied effectivewithout interview where full particulars of case are sent by letter.

30 YEARS!

Imporrant trial of THIRTY YEARS decided, and a jury of half a million people have given their verdict that

MINARD'S LINIMENT!

Is the best inflammation allayer and Pain destroyer in the world. 500 Medical men endorse and use it in their practice, and believe it is well worthy the name.

KING OF PAIN!

\$3100 will be paid for a case it will not cure or help of the following Diseases: Diptheria and Rheumatism' Scalds, Chilblains, Galls, Boils, Sprains, Lumbago, Bronchitis, Burns, Toothache, Broken Breasts, Sore Nipples, Felons, Stings, Frost Bites, Bruises, old Sores, Wounds, Earache, Pain in the Side or Back, Contraction of the Muscles.

There is nothing like it when taken internally for Cramps. Colic, Croup, Colds, Coughs, Pleurisy, Hoarseness, and Sore Throat. It is perfectly harmless, and can be given according to directions without any injury whatever.

A Positive Cure for Corus and Warts. And will produce a fine growth of Hair on bald heads in cases where the Hair has fallen fromdisease, as thousands of testimonials will prove. A trial will convince the most sceptical that the above is true. Send to us for testimonials of distinguished men who have used.

MINARD'S LINIMENT And now have a beautiful crop of Hair and hundreds who have used it are will ing to swear that by the use of Minard's Liniment they have obtained a new growth of Hair.

W. J. NELSON & Co., Proprietors, Bridgewater, N. S. Wholesale agents—Forsyth, Sutcliffe & Co., and Brown & Webb, Halifax.

Paper Hangings WM. GOSSIP'S. UNITED SERVICE Book & Stationery Warehouse.

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My importations of

This season are very attractive. They are in time to escape the additional protective duty imposed by the Dominion Government, and will be sold at correspondingly low rates.

SOLD WHOLESALE

by the bale of four or five hundred rolls, about twenty patterns in a bale, from 6 cts. a roll and upward. Send to

William Gossip.

No. 103 Granville Street, Also just received, a large assortment of Artists' Materials, Oil and Water Colours, &c. Drawing Paper, Canvases, Brushes, &c., &c. March 22.

1872 MUSIC GARD. 1883

The Gates' Organ and Piano Company, (Limited.)

Capital \$60,000-Encourage Home Enter-Prof. C. E. Gates, President; W. J.

Gates, Manager; G. O. Gates, Superintendent. Factory TRURO. Warerooms HALIFAX & TRURO, N. S. FOR SALE .- Pianos, Organs, Music Stools, Sheet Music, Music Books, and

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The Musical Journal published monthly by the Company,

(120 pages New Music). Price only 60 cents per annum. Jan. 31.

During Convention and Associations we want to introduce BUDS & BLOSSOMS.

so as to end the seventh year with an "Buds and Blossoms and Family Greetings" as a magazine for church and home must win its way both on account of quality and price.

See what others say! BUDS AND BLOSSONS is the title of a neat and attractive illustrated religious

monthly magazine, published in Halifax, N. S., and edited by Rev. J. F. Avery. pastor of the Third Baptist Church of that city. It is now in its seventh vol., and does credit to both publisher and editor. It is such a periodical as will prove a blessing in any family where it is taken and read.—N. Y. "Watch Tower." "J. F. AVERY, of Halifax, editor of BUDS & BLOSSOMS, sent us a copy of his magazine. We are very much pleased with it. It is a nearer approach to the English magazines of the same class than anything published here. Its ILLUSTRA-TIONS are good and its reading matter such as must do good. We wish it success."-" Canadian Baptist."

Fully Illustrated, 38 pages, price 75 cents a year, specimen for a 3 ct. stamp.

May 30.

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All kinds of

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Executed with neatness and despatch

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WEDDING CARDS, LADIES VISITING CARDS.

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At reasonable prices.

Sunday School Headquarters.

BRITISH AMERICAN BOOK AND TRACT SOCIETY,

Depository, 117 Granville St., Halifax, Secretary and Superintendent of Colportage,

A. N. ARCHIBALD. Ample supply of the best and most popular Sunday School Books published. HALF PRICE-Books of Religious Tract Society, London; STRONGEST BINDING, SU-PERIOR TYPE. Sold both through the Depository and the Society's Colporteurs in

lots to suit the Schools. 50 Volumes for from \$6.00 to \$8.00. The Committee have been selecting from the leading Publishing Houses of Great Britain and America for 15 years the choicest S. S. publications, and have made a specialty of Libraries, Periodicals, Lesson

Helps, Cards, etc. PELOUBET'S SELECT NOTES ON INTERNA-TIONAL S. S. LESSONS, postpaid \$1.25.

HACKETT'S COMMENTARY ON ACTS, edited by Dr. Hovey, of Newton, postpaid, \$2. People's Home Mission Agency.

The Society has been in operation 15 years. Colporteurs to the number of 102 have been employed, who have distributed Bibles and good books worth \$141,236 by sale, and books and tracts valued at \$10,081 by grant. Total grants by the Society, including those from Depot, more than \$16,000 worth. Time served by the Col porteurs equals that of one man for 142 years. Labrador, Newfoundland, Cape Breton, P. E. Island, Nova Scotia, New Brunswick, and a portion of Quebec have been explored. There have been found 1.525 families without God's Word; 2,582 families with no other religious book; and 2,545 families who habitually neglect attending any place of worship. The 26 Colporteurs employed in 1882 performed labor equal to that of one man for I21 years; found 205 Protestant families without Bibles, 279 with no other religious books, and 373 families who never enter the House of God. They sold books worth \$13,832, and made free grants to the value of \$913, as they made 31,679 family visits, and held 625 religious

meetings. The books circulated are sound and good teaching the RUIN of man by the fall, REGEN-ERATION by the Holy Spirit, and REDEMPTION through our Lord and Saviour Jesus Christ. They are eminently designed to spread abroad Divine truth, and they are accepted by those that in every place call upon the name of the Lord. They give no uncertain sound upon the essential doctrines of the Cross: Justification through the blood of the Redeemer, holiness through the sanctification of the Spirit, and complete redemption through God's grace alone. Books and tracts designed especially to awaken the impenitent and point to Jesus are imported in great numbers. Almost 10,000 "Come

to Jesus" were distributed last year. company the reading of the books and the evangelistic efforts of the Colporteurs. A copy of the last Annual Report, giving much interesting information and copious extracts from the Colporteurs' reports, will be sent on application to the Secretary.

American Baptist Publication Society.

As advertised last year, we continue to order the publications of the above Society upon which we allow a discount of FIFTEEN per cent, excepting periodicals, from the catalogue prices. As compared with the issues of the British houses these books are expensive. Catalogues will be supplied upon application, and those ordering can decide

The Psalmist, published in the United States for 85 cents, we continue to sell for 75 cents. From our Depot and through Colporteurs about 5,000 Psalmists have been already sold.

Donations to Dec. 31st, 1882, in aid of Colportage, \$40,127; amount paid by Society to Dec. 31st, 1882, for Colportage, \$63,250.

Patronize the Depository and thus aid Colportage, to which all accruing profits are applicable

CARD.

DEING in possession of a valuable

Asthma, Hay Fever, Phthisic, Bronand all difficulty in breathing, I have consented after numerous solicitations to make it known. Any individual so suffering can get valuable information

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